

Xuemin Shen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11713334/publications.pdf>

Version: 2024-02-01

97
papers

9,561
citations

61945

43
h-index

102432

66
g-index

105
all docs

105
docs citations

105
times ranked

7397
citing authors

#	ARTICLE	IF	CITATIONS
1	Connected Vehicles: Solutions and Challenges. IEEE Internet of Things Journal, 2014, 1, 289-299.	5.5	913
2	GSIS: A Secure and Privacy-Preserving Protocol for Vehicular Communications. IEEE Transactions on Vehicular Technology, 2007, 56, 3442-3456.	3.9	747
3	EPPA: An Efficient and Privacy-Preserving Aggregation Scheme for Secure Smart Grid Communications. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 1621-1631.	4.0	605
4	Operator controlled device-to-device communications in LTE-advanced networks. IEEE Wireless Communications, 2012, 19, 96-104.	6.6	562
5	HC-MAC: A Hardware-Constrained Cognitive MAC for Efficient Spectrum Management. IEEE Journal on Selected Areas in Communications, 2008, 26, 106-117.	9.7	555
6	A Lightweight Message Authentication Scheme for Smart Grid Communications. IEEE Transactions on Smart Grid, 2011, 2, 675-685.	6.2	390
7	Securing smart grid: cyber attacks, countermeasures, and challenges. , 2012, 50, 38-45.		311
8	EPPDR: An Efficient Privacy-Preserving Demand Response Scheme with Adaptive Key Evolution in Smart Grid. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 2053-2064.	4.0	263
9	An Efficient Pseudonymous Authentication Scheme With Strong Privacy Preservation for Vehicular Communications. IEEE Transactions on Vehicular Technology, 2010, 59, 3589-3603.	3.9	260
10	Energy-theft detection issues for advanced metering infrastructure in smart grid. Tsinghua Science and Technology, 2014, 19, 105-120.	4.1	244
11	An Efficient Merkle-Tree-Based Authentication Scheme for Smart Grid. IEEE Systems Journal, 2014, 8, 655-663.	2.9	235
12	Big Data Driven Vehicular Networks. IEEE Network, 2018, 32, 160-167.	4.9	231
13	An Efficient Message Authentication Scheme for Vehicular Communications. IEEE Transactions on Vehicular Technology, 2008, 57, 3357-3368.	3.9	225
14	SPOC: A Secure and Privacy-Preserving Opportunistic Computing Framework for Mobile-Healthcare Emergency. IEEE Transactions on Parallel and Distributed Systems, 2013, 24, 614-624.	4.0	217
15	GRS: The green, reliability, and security of emerging machine to machine communications. , 2011, 49, 28-35.		180
16	Toward secure targeted broadcast in smart grid. IEEE Communications Magazine, 2012, 50, 150-156.	4.9	177
17	Pi: A practical incentive protocol for delay tolerant networks. IEEE Transactions on Wireless Communications, 2010, 9, 1483-1493.	6.1	172
18	UDP: Usage-Based Dynamic Pricing With Privacy Preservation for Smart Grid. IEEE Transactions on Smart Grid, 2013, 4, 141-150.	6.2	159

#	ARTICLE	IF	CITATIONS
19	TSVC: timed efficient and secure vehicular communications with privacy preserving. IEEE Transactions on Wireless Communications, 2008, 7, 4987-4998.	6.1	155
20	A Dynamic Privacy-Preserving Key Management Scheme for Location-Based Services in VANETs. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 127-139.	4.7	154
21	SPRING: A Social-based Privacy-preserving Packet Forwarding Protocol for Vehicular Delay Tolerant Networks. , 2010, , .		144
22	S2M: A Lightweight Acoustic Fingerprints-Based Wireless Device Authentication Protocol. IEEE Internet of Things Journal, 2017, 4, 88-100.	5.5	144
23	MAC in Motion: Impact of Mobility on the MAC of Drive-Thru Internet. IEEE Transactions on Mobile Computing, 2012, 11, 305-319.	3.9	119
24	Opportunistic Spectrum Access for CR-VANETs: A Game-Theoretic Approach. IEEE Transactions on Vehicular Technology, 2014, 63, 237-251.	3.9	117
25	An early warning system against malicious activities for smart grid communications. IEEE Network, 2011, 25, 50-55.	4.9	98
26	Queuing models with applications to mode selection in device-to-device communications underlaying cellular networks. IEEE Transactions on Wireless Communications, 2014, 13, 6697-6715.	6.1	98
27	Dynamic RAN Slicing for Service-Oriented Vehicular Networks via Constrained Learning. IEEE Journal on Selected Areas in Communications, 2021, 39, 2076-2089.	9.7	93
28	Vehicular WiFi offloading: Challenges and solutions. Vehicular Communications, 2014, 1, 13-21.	2.7	92
29	DCS: An Efficient Distributed-Certificate-Service Scheme for Vehicular Networks. IEEE Transactions on Vehicular Technology, 2010, 59, 533-549.	3.9	91
30	PHDA: A priority based health data aggregation with privacy preservation for cloud assisted WBANs. Information Sciences, 2014, 284, 130-141.	4.0	89
31	Mutual Authentication and Key Exchange Protocols for Roaming Services in Wireless Mobile Networks. IEEE Transactions on Wireless Communications, 2006, 5, 2569-2577.	6.1	84
32	Security in service-oriented vehicular networks. IEEE Wireless Communications, 2009, 16, 16-22.	6.6	82
33	GLARM: Group-based lightweight authentication scheme for resource-constrained machine to machine communications. Computer Networks, 2016, 99, 66-81.	3.2	82
34	Vehicles Meet Infrastructure: Toward Capacityâ€‘Cost Tradeoffs for Vehicular Access Networks. IEEE Transactions on Intelligent Transportation Systems, 2013, 14, 1266-1277.	4.7	81
35	REP: Location Privacy for VANETs Using Random Encryption Periods. Mobile Networks and Applications, 2010, 15, 172-185.	2.2	72
36	An Intelligent Secure and Privacy-Preserving Parking Scheme Through Vehicular Communications. IEEE Transactions on Vehicular Technology, 2010, 59, 2772-2785.	3.9	67

#	ARTICLE	IF	CITATIONS
37	PaRQ: A Privacy-Preserving Range Query Scheme Over Encrypted Metering Data for Smart Grid. IEEE Transactions on Emerging Topics in Computing, 2013, 1, 178-191.	3.2	66
38	SLAB: A secure localized authentication and billing scheme for wireless mesh networks. IEEE Transactions on Wireless Communications, 2008, 7, 3858-3868.	6.1	62
39	CPAL: A Conditional Privacy-Preserving Authentication With Access Linkability for Roaming Service. IEEE Internet of Things Journal, 2014, 1, 46-57.	5.5	61
40	Lightweight Security and Privacy Preserving Scheme for Smart Grid Customer-Side Networks. IEEE Transactions on Smart Grid, 2017, 8, 1064-1074.	6.2	61
41	Towards Rear-End Collision Avoidance: Adaptive Beacons for Connected Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 1248-1263.	4.7	61
42	Toward Dynamic Link Utilization for Efficient Vehicular Edge Content Distribution. IEEE Transactions on Vehicular Technology, 2019, 68, 8301-8313.	3.9	56
43	EDR: Efficient Decentralized Revocation Protocol for Vehicular Ad Hoc Networks. IEEE Transactions on Vehicular Technology, 2009, 58, 5214-5224.	3.9	55
44	Dependability Analysis of Control Center Networks in Smart Grid Using Stochastic Petri Nets. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 1721-1730.	4.0	53
45	Towards optimal energy store-carry-and-deliver for PHEVs via V2G system. , 2012, , .		51
46	Privacy-Preserving Real-Time Navigation System Using Vehicular Crowdsourcing. , 2016, , .		51
47	A Novel Anonymous Mutual Authentication Protocol With Provable Link-Layer Location Privacy. IEEE Transactions on Vehicular Technology, 2009, 58, 1454-1466.	3.9	48
48	Privacy-preserving Partner Selection for Ride-sharing Services. IEEE Transactions on Vehicular Technology, 2018, , 1-1.	3.9	45
49	Contention Intensity Based Distributed Coordination for V2V Safety Message Broadcast. IEEE Transactions on Vehicular Technology, 2018, 67, 12288-12301.	3.9	43
50	Investigating Public-Key Certificate Revocation in Smart Grid. IEEE Internet of Things Journal, 2015, 2, 490-503.	5.5	41
51	Vehicle-assisted device-to-device data delivery for smart grid. IEEE Transactions on Vehicular Technology, 2016, 65, 2325-2340.	3.9	39
52	VTube: Towards the media rich city life with autonomous vehicular content distribution. , 2011, , .		38
53	Towards a light-weight message authentication mechanism tailored for Smart Grid communications. , 2011, , .		38
54	MAAC: Message Authentication Acceleration Protocol for Vehicular Ad Hoc Networks. , 2009, , .		35

#	ARTICLE	IF	CITATIONS
55	Chronos+: An Accurate Blockchain-based Time-stamping Scheme for Cloud Storage. IEEE Transactions on Services Computing, 2019, , 1-1.	3.2	32
56	Toward Optimal Admission Control and Resource Allocation for LTE-A Femtocell Uplink. IEEE Transactions on Vehicular Technology, 2014, , 1-1.	3.9	28
57	TUA: A Novel Compromise-Resilient Authentication Architecture for Wireless Mesh Networks. IEEE Transactions on Wireless Communications, 2008, 7, 1389-1399.	6.1	26
58	EDR: An efficient demand response scheme for achieving forward secrecy in smart grid. , 2012, , .		25
59	REACT: An RFID-based privacy-preserving children tracking scheme for large amusement parks. Computer Networks, 2010, 54, 2744-2755.	3.2	24
60	Sacrificing the Plum Tree for the Peach Tree: A Socialspot Tactic for Protecting Receiver-Location Privacy in VANET. , 2010, , .		23
61	Practical and Secure SVM Classification for Cloud-Based Remote Clinical Decision Services. IEEE Transactions on Computers, 2021, 70, 1612-1625.	2.4	20
62	Security-Enhanced Data Aggregation against Malicious Gateways in Smart Grid. , 2015, , .		19
63	RSEL: revocable secure efficient lightweight RFID authentication scheme. Concurrency Computation Practice and Experience, 2014, 26, 1084-1096.	1.4	16
64	Leveraging Multiagent Learning for Automated Vehicles Scheduling at Nonsignalized Intersections. IEEE Internet of Things Journal, 2021, 8, 11427-11439.	5.5	15
65	Security and Privacy in Smart Grid. Springer Briefs in Electrical and Computer Engineering, 2018, , .	0.3	12
66	LGTH: A lightweight group authentication protocol for machine-type communication in LTE networks. , 2013, , .		10
67	Efficient public-key certificate revocation schemes for smart grid. , 2013, , .		9
68	Blockchain-Based Smart Advertising Network With Privacy-Preserving Accountability. IEEE Transactions on Network Science and Engineering, 2021, 8, 2118-2130.	4.1	9
69	EATH: An efficient aggregate authentication protocol for smart grid communications. , 2013, , .		8
70	Anonymous Group Message Authentication Protocol for LTE-based V2X Communications. Internet Technology Letters, 2018, 1, e25.	1.4	8
71	Cloud-Based Privacy-Preserving Parking Navigation Through Vehicular Communications. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2017, , 85-103.	0.2	8
72	TTP Based Privacy Preserving Inter-WISP Roaming Architecture for Wireless Metropolitan Area Networks. , 2007, , .		7

#	ARTICLE	IF	CITATIONS
73	ECQ: An Efficient Conjunctive Query scheme over encrypted multidimensional data in smart grid. , 2013, , .		7
74	Authenticated and Prunable Dictionary for Blockchain-Based VNF Management. IEEE Transactions on Wireless Communications, 2022, 21, 9312-9324.	6.1	7
75	A New Dynamic Group Key Management Scheme with Low Rekeying Cost. , 2008, , .		5
76	PPC: Privacy-Preserving Chatting in Vehicular Peer-to-Peer Networks. , 2010, , .		5
77	Particle filter based grid synchronization with voltage unbalance and frequency variation in smart grid. , 2013, , .		5
78	Location-Release Signature for Vehicular Communications. , 2009, , .		4
79	Flow-Level Performance of Device-to-Device Overlaid OFDM Cellular Networks. Lecture Notes in Computer Science, 2015, , 305-314.	1.0	3
80	Querying over Encrypted Data in Smart Grids. SpringerBriefs in Computer Science, 2014, , .	0.2	2
81	Security-Enhanced Data Aggregation against Malicious Gateways in Smart Grid. , 2014, , .		2
82	Smart Grid Security Security and Privacy of Customer-Side Networks. Springer Briefs in Electrical and Computer Engineering, 2018, , 27-64.	0.3	2
83	Profile Matching Protocol with Anonymity Enhancing Techniques. SpringerBriefs in Computer Science, 2013, , 19-41.	0.2	2
84	Opportunistic Communication Spectra Utilization. Springer Briefs in Electrical and Computer Engineering, 2016, , 9-27.	0.3	2
85	Accelerating authenticated emergence message propagation to mitigate chain-reaction accidents in highway traffic. , 2009, , .		1
86	Physical-Layer Location Privacy for Mobile Public Hotspots in a NEMO-Based VANET. SpringerBriefs in Computer Science, 2013, , 73-101.	0.2	1
87	Range Query over Encrypted Metering Data for Financial Audit. SpringerBriefs in Computer Science, 2014, , 51-75.	0.2	1
88	Cooperative Data Forwarding Strategy with Privacy Preservation. SpringerBriefs in Computer Science, 2013, , 43-66.	0.2	1
89	A stochastic Petri nets approach to dependability analysis of control center networks in smart grid. , 2011, , .		0
90	Performance Analysis of IEEE 802.11p DCF for Inter-Platoon Communications with Autonomous Vehicles. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
91	Privacy-Enhancing Technologies. Springer Briefs in Electrical and Computer Engineering, 2018, , 9-33.	0.3	0
92	Recommendation-Based Trustworthy Service Evaluation. SpringerBriefs in Computer Science, 2013, , 67-93.	0.2	0
93	Equality Query for Auction in Emerging Smart Grid Marketing. SpringerBriefs in Computer Science, 2014, , 19-35.	0.2	0
94	Conjunctive Query over Encrypted Multidimensional Data. SpringerBriefs in Computer Science, 2014, , 37-50.	0.2	0
95	Security and Privacy Challenges in MHN. Wireless Networks, 2015, , 11-20.	0.3	0
96	Secure Health Data Collection in MHN. Wireless Networks, 2015, , 21-45.	0.3	0
97	Data Privacy Protection in Smart Grid. Springer Briefs in Electrical and Computer Engineering, 2018, , 67-85.	0.3	0